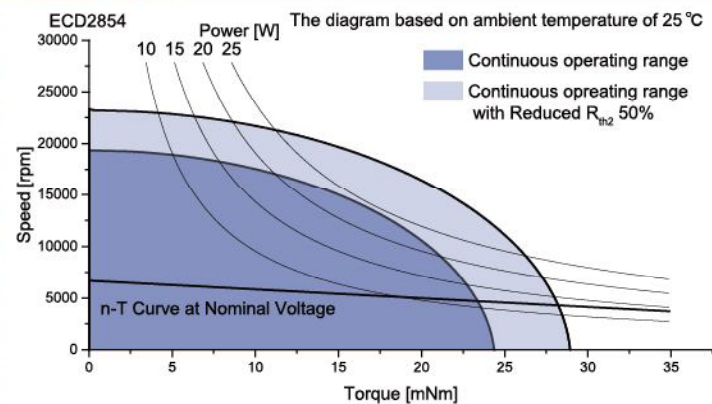


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With hall sensor ECD2854S-...		1206	2406				
Motor data							
Values at nominal voltage							
1	Nominal voltage	V	12	24			
2	No load speed	rpm	6878	6700			
3	No load current	mA	121	76			
4	Nominal speed	rpm	5674	5157			
5	Nominal torque	mNm	15	18			
6	Nominal current	A	1.04	0.62			
7	Stall torque	mNm	85.7	78.1			
8	Stall current	A	5.38	2.43			
9	Max. efficiency	%	72.3	67.8			
10	Supply voltage +Vcc	V	10..28	10..28			
11	Direction of rotation		CW	CW			
12	Torque constant	mNm/A	16.3	33.1			
13	Speed constant	rpm/V	586	288			
14	Speed/torque gradient	rpm/mNm	80.3	85.7			
15	Mechanical time constant	ms	4.4	4.7			
16	Rotor inertia	gcm ²	5.2	5.2			

17	Thermal resistance housing-ambient	9.6 K/W
18	Thermal resistance winding-housing	6.3 K/W
19	Thermal time constant winding	37 s
20	Thermal time constant motor	584 s
21	Ambient temperature	-30...+100°C
22	Max. permissible winding temperature	+150°C
23	Max. permissible speed	25000 rpm
24	Axial play at axial load <8 N	0 mm
	>8 N	max. 0.3 mm
25	Radial play	preloaded
26	Max. axial load (dynamic)	7.5 N
27	Max. force for press fits (static)	100 N
	(static, shaft supported)	2000 N
28	Max. radial loading, 5mm from flange	25 N
29	Number of pole pairs	1
30	Number of phases	3
31	Weight of motor	153 g

Operating Range



Controller features	
Sensor	Open loop, $I_{max} < 1.8A$
Overload protection	Stall protection
Max. temperature of electronics	+105°C

Connection

Connection		PTFE
Pin 1	+VCC	AWG20 red
Pin 2	GND	AWG20 black

Caution:
 Incorrect lead connection will damage the controller!

Configuration

Function: On&Off/Direction/Speed control/Brake
 Speed closed&open-loop Control/Speed feedback
 Performance: Customized in the continuous operating range
 Ball bearing: Preload
 Flange: Standard frange front&back/customize the frange
 Shaft: Length/Diameter/Cut face
 Leadwire: PVC/Silicon/Teflon/UL No/Dimension/length
 Connector: JST/MOLEX/TE

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